William Speier

List of Publications by Year
in descending order

66	1,632	257450	330143
papers	citations	24 h-index	37 g-index

71	71	71	2021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualization of Fluoroscopic Imaging in Orthopedic Surgery: Head-Mounted Display vs Conventional Monitor. Surgical Innovation, 2022, 29, 353-359.	0.9	4
2	Attention-Guided Discriminative Region Localization and Label Distribution Learning for Bone Age Assessment. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1208-1218.	6.3	15
3	High resolution histopathology image generation and segmentation through adversarial training. Medical Image Analysis, 2022, 75, 102251.	11.6	19
4	Refining epileptogenic high-frequency oscillations using deep learning: a reverse engineering approach. Brain Communications, 2022, 4, fcab267.	3.3	14
5	PathAL: An Active Learning Framework for Histopathology Image Analysis. IEEE Transactions on Medical Imaging, 2022, 41, 1176-1187.	8.9	11
6	Extending brain-computer interface access with a multilingual language model in the P300 speller. Brain-Computer Interfaces, 2022, 9, 36-48.	1.8	3
7	Sex-based differences in remote monitoring of biometric, psychometric and biomarker indices in stable ischemic heart disease. Biology of Sex Differences, 2022, 13, 15.	4.1	1
8	HCET: Hierarchical Clinical Embedding With Topic Modeling on Electronic Health Records for Predicting Future Depression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1265-1272.	6.3	28
9	Hierarchical Graph Pathomic Network for Progression Free Survival Prediction. Lecture Notes in Computer Science, 2021, , 227-237.	1.3	5
10	Federated learning improves site performance in multicenter deep learning without data sharing. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1259-1264.	4.4	93
11	Generalizing neural signal-to-text brain-computer interfaces. Biomedical Physics and Engineering Express, 2021, 7, 035023.	1.2	0
12	A multi-resolution model for histopathology image classification and localization with multiple instance learning. Computers in Biology and Medicine, 2021, 131, 104253.	7.0	54
13	Intra-domain task-adaptive transfer learning to determine acute ischemic stroke onset time. Computerized Medical Imaging and Graphics, 2021, 90, 101926.	5.8	14
14	Harnessing clinical annotations to improve deep learning performance in prostate segmentation. PLoS ONE, 2021, 16, e0253829.	2.5	4
15	Bidirectional Representation Learning From Transformers Using Multimodal Electronic Health Record Data to Predict Depression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3121-3129.	6.3	47
16	Optimizing Spatial Biopsy Sampling for the Detection of Prostate Cancer. Journal of Urology, 2021, 206, 595-603.	0.4	19
17	Machine Learning Prediction of Treatment Outcome in Late-Life Depression. Frontiers in Psychiatry, 2021, 12, 738494.	2.6	11
18	A Semi-Supervised Learning Framework to Leverage Proxy Information for Stroke MRI Analysis. , 2021, 2021, 2258-2261.		2

#	Article	IF	Citations
19	A Machine Learning Approach to Classifying Self-Reported Health Status in a Cohort of Patients With Heart Disease Using Activity Tracker Data. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 878-884.	6.3	45
20	Biometric and Psychometric Remote Monitoring and Cardiovascular Risk Biomarkers in Ischemic Heart Disease. Journal of the American Heart Association, 2020, 9, e016023.	3.7	8
21	Integrating remote monitoring into heart failure patientsâ€™ care regimen: A pilot study. PLoS ONE, 2020, 15, e0242210.	2.5	21
22	Semi-automated PIRADS scoring via mpMRI analysis. Journal of Medical Imaging, 2020, 7, 064501.	1.5	1
23	Maintaining High Accuracy General P300 Speller Using the Language Modeling and Dynamic Stopping. , 2020, , .		1
24	Optimizing P300 speller performance using language models for character and word prediction. , 2020, , .		0
25	Using Sequential Decision Making to Improve Lung Cancer Screening Performance. IEEE Access, 2019, 7, 119403-119419.	4.2	27
26	A protocol integrating remote patient monitoring patient reported outcomes and cardiovascular biomarkers. Npj Digital Medicine, 2019, 2, 84.	10.9	12
27	A Machine Learning Approach for Classifying Ischemic Stroke Onset Time From Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 1666-1676.	8.9	71
28	LSTM Network for Prediction of Hemorrhagic Transformation in Acute Stroke. Lecture Notes in Computer Science, 2019, , 177-185.	1.3	6
29	Predicting ischemic stroke tissue fate using a deep convolutional neural network on source magnetic resonance perfusion images. Journal of Medical Imaging, 2019, 6, 1.	1.5	19
30	Assessment of Heart Failure Patientsâ€™ Interest in Mobile Health Apps for Self-Care: Survey Study. JMIR Cardio, 2019, 3, e14332.	1.7	23
31	The potential value of probabilistic tractography-based for MR-guided focused ultrasound thalamotomy for essential tremor. NeuroImage: Clinical, 2018, 17, 1019-1027.	2.7	43
32	Improving P300 spelling rate using language models and predictive spelling. Brain-Computer Interfaces, 2018, 5, 13-22.	1.8	13
33	ResearchMaps.org for integrating and planning research. PLoS ONE, 2018, 13, e0195271.	2.5	4
34	An EM-based semi-supervised deep learning approach for semantic segmentation of histopathological images from radical prostatectomies. Computerized Medical Imaging and Graphics, 2018, 69, 125-133.	5.8	46
35	Evaluating utility and compliance in a patient-based eHealth study using continuous-time heart rate and activity trackers. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1386-1391.	4.4	37
36	Effect of altering breathing frequency on maximum voluntary ventilation in healthy adults. BMC Pulmonary Medicine, 2018, 18, 89.	2.0	5

#	Article	IF	Citations
37	Readability Assessment of Patient-Centered Outcomes Research Institute Public Abstracts in Relation to Accessibility. Epidemiology, 2017, 28, e37-e38.	2.7	2
38	Online BCI typing using language model classifiers by ALS patients in their homes. Brain-Computer Interfaces, 2017, 4, 114-121.	1.8	26
39	A comparison of stimulus types in online classification of the P300 speller using language models. PLoS ONE, 2017, 12, e0175382.	2.5	26
40	Classifying Acute Ischemic Stroke Onset Time using Deep Imaging Features. AMIA ... Annual Symposium proceedings, 2017, 2017, 892-901.	0.2	14
41	Evaluating topic model interpretability from a primary care physician perspective. Computer Methods and Programs in Biomedicine, 2016, 124, 67-75.	4.7	27
42	Integrating language models into classifiers for BCI communication: a review. Journal of Neural Engineering, 2016, 13, 031002.	3.5	38
43	Using phrases and document metadata to improve topic modeling of clinical reports. Journal of Biomedical Informatics, 2016, 61, 260-266.	4.3	30
44	A method for optimizing EEG electrode number and configuration for signal acquisition in P300 speller systems. Clinical Neurophysiology, 2015, 126, 1171-1177.	1.5	61
45	Incorporating advanced language models into the P300 speller using particle filtering. Journal of Neural Engineering, 2015, 12, 046018.	3.5	13
46	Patientsâ€™ Perceptions of Radiation Exposure Associated With Mammography. American Journal of Roentgenology, 2015, 205, 215-221.	2.2	14
47	Prevalence of Coronary Artery Disease Evaluated by Coronary CT Angiography in Women with Mammographically Detected Breast Arterial Calcifications. PLoS ONE, 2015, 10, e0122289.	2.5	33
48	Integrating Language Information With a Hidden Markov Model to Improve Communication Rate in the P300 Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 678-684.	4.9	32
49	Successful Patient Recruitment in CT Imaging Clinical Trials. Academic Radiology, 2014, 21, 52-57.	2.5	7
50	Predicting discharge mortality after acute ischemic stroke using balanced data. AMIA ... Annual Symposium proceedings, 2014, 2014, 1787-96.	0.2	18
51	Motivating the additional use of external validity: examining transportability in a model of glioblastoma multiforme. AMIA ... Annual Symposium proceedings, 2014, 2014, 1930-9.	0.2	2
52	Unsupervîsed training of brain-computer interface systems using exnectation maximization. , 2013, , .		4
53	The effects of stimulus timing features on P300 speller performance. Clinical Neurophysiology, 2013, 124, 306-314.	1.5	49
54	Improved P300 speller performance using electrocorticography, spectral features, and natural language processing. Clinical Neurophysiology, 2013, 124, 1321-1328.	1.5	24

#	Article	IF	Citations
55	Evaluating True BCI Communication Rate through Mutual Information and Language Models. PLoS ONE, 2013, 8, e78432.	2.5	30
56	Updating annotations with the distributed annotation system and the automated sequence annotation pipeline. Bioinformatics, 2012, 28, 2858-2859.	4.1	5
57	A topic model of clinical reports. , 2012, , .		26
58	Natural language processing with dynamic classification improves P300 speller accuracy and bit rate. Journal of Neural Engineering, 2012, 9, 016004.	3.5	43
59	Automated extraction of reported statistical analyses: towards a logical representation of clinical trial literature. AMIA ... Annual Symposium proceedings, 2012, 2012, 350-9.	0.2	10
60	OnionTree XML: A Format to Exchange Gene-Related Probabilities. Journal of Biomolecular Structure and Dynamics, 2011, 29, 417-423.	3.5	0
61	Robust Skull Stripping of Clinical Glioblastoma Multiforme Data. Lecture Notes in Computer Science, 2011, 14, 659-666.	1.3	18
62	Cost implications of new treatments for advanced colorectal cancer. Cancer, 2009, 115, 2081-2091.	4.1	54
63	Phosphorylation of Akt (Ser473) Predicts Poor Clinical Outcome in Oropharyngeal Squamous Cell Cancer. Cancer Epidemiology Biomarkers and Prevention, 2007, 16, 553-558.	2.5	70
64	Is Proton Beam Therapy Cost Effective in the Treatment of Adenocarcinoma of the Prostate?. Journal of Clinical Oncology, 2007, 25, 3603-3608.	1.6	142
65	Application of Bayesian Decomposition for analysing microarray data. Bioinformatics, 2002, 18, 566-575.	4.1	84
66	Identifying Input Features for Development of Real-Time Translation of Neural Signals to Text. , 0, , .		2